AC 44485

LANCASHIRE COUNTY COUNCIL.

Prevention and Treatment of Tuberculosis in the Administrative County of Lancaster

Report
on the Tuberculosis Services of the
Lancashire County Council
for the year 1947.

PRESTON:
PRINTED BY T. SNAPE & CO. LTD., BOLTON'S COURT,
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COUNTY TUBERCULOSIS COMMITTEE.

(1st July, 1948)

The Chairman of the County Council :
County Alderman H. Hyde, J.P.

The Vice-Chairman of the County Council :
County Alderman A. Smith, J.P.

Chairman of Committee :
County Alderman P. F. Mannix, M.D., M.CH., B.A.O., J.P.

Vice-Chairman :
County Councillor G. E. Hardman, J.P.

County Aldermen :

H. Bright, Esq.
H. F. Jeffery, Esq., M.B., Ch.B., J.P.
W. T. Miller, Esq., J.P.
Lady Openshaw, J.P.

County Councillors :

A. Clein, Esq., L.R.C.P.I. & L.M., L.R.C.S.I. & L.M.
F. H. Dodd, Esq.
C. W. Doodson, Esq.
J. E. Evans, Esq.
Miss E. R. Garnett, J.P.
C. Hargreaves, Esq.
J. R. Hull, Esq.
J. E. Leaver, Esq.
Herbert Norcross, Esq.
W. Riddiough, Esq.
E. Smethurst, Esq., J.P.
J. W. Thorley, Esq.
J. Welch, Esq., M.A., LL.B.
F. Wilkinson, Esq., J.P.

Sanatorium and Hospital Sub-Committee.

Dr. P. F. Mannix and G. E. Hardman, Esq. (Chairman and Vice-Chairman of the County Tuberculosis Committee); H. Bright, Esq.; C. W. Doodson, Esq.; Miss E. R. Garnett; J. R. Hull, Esq.; E. Smethurst, Esq.; J. W. Thorley, Esq.; and F. Wilkinson, Esq.

Selection Sub-Committee.

(*For Senior Appointments*).

Dr. P. F. Mannix and G. E. Hardman, Esq. (Chairman and Vice-Chairman of the County Tuberculosis Committee); Dr. A. Clein; Herbert Norcross, Esq.; Lady Openshaw; and J. W. Thorley, Esq.

STAFF OF THE TUBERCULOSIS DEPARTMENT,

1st July, 1948.

(*For further details see folding Table "A"*).

County Medical Officer of Health ... F. Hall, C.B.E., M.D., D.P.H., Barrister-at-Law.

Central Consultant Tuberculosis Officer ... ... F. C. S. Bradbury, M.D., D.P.H.

Area 1 (Population 279,462).

Consultant Tuberculosis Officer ... Dr. H. J. Villiers (one assistant).

Chief Dispensary ... ... Lancaster.

Hospital ... ... Lancaster Pulmonary Hospital.

Area 2 (Population : County, 302,424 ; Blackburn, 108,390).

Consultant Tuberculosis Officer ... Dr. G. B. Charnock (two assistants).

Chief Dispensary ... ... Accrington.

Hospital ... ... Withnell Pulmonary Hospital and Brinscall Annexe.

Area 3 (Population 387,111).

Consultant Tuberculosis Officer ... Dr. G. Fletcher (two assistants).

Chief Dispensary ... ... Ashton-under-Lyne.

Hospital ... ... Wolstenholme Pulmonary Hospital.

Area 4 (Population 379,545).

Consultant Tuberculosis Officer ... Dr. J. L. Armour (two assistants).

Chief Dispensary ... ... Leigh.

Hospital ... ... Peel Hall Pulmonary Hospital.

Area 5 (Population 361,007).

Consultant Tuberculosis Officer ... Dr. C. Berry (two assistants).
Chief Dispensary ... ... Waterloo.
Hospital ... ... Rufford Pulmonary Hospital.

Furness Area (Population 39,639).

Consultant Tuberculosis Officer and Medical Superintendent ... Dr. G. Leggat.
Dispensary ... ... Ulverston.
Sanatorium... ... ... High Carley Sanatorium.

Fylde Area (Population 102,726).

Consultant Tuberculosis Officer and Medical Superintendent ... Dr. A. B. Jamieson.
Dispensary ... ... Fleetwood.
Sanatorium ... ... Elswick Sanatorium.

Wigan County Area (Population 107,246).

Consultant Tuberculosis Officer ... Dr. E. H. W. Deane.
Dispensary ... ... Wigan.
Hospital ... ... Wrightington Hospital (Pulmonary Section).

Wrightington Hospital (350 beds).

Medical Superintendent ... ... Dr. J. Dobson (three assistants).

Chadderton Pulmonary Hospital (52 beds).

Visiting Medical Superintendent ... Dr. E. T. Holden.

Heath Charnock Pulmonary Hospital (37 beds).

Visiting Medical Superintendent ... Dr. J. Rigby.

Mass Miniature Radiography Units.

Medical Director, No. 1 Unit ... Dr. P. Haslam.
Medical Director, No. 2 Unit ... Dr. H. N. Bleasdale.

Visiting Consultant Surgical Staff.

Wrightington Hospital.

Orthopaedic Surgeons ...	... Professor Sir Harry Platt. Professor T. P. McMurray, C.B.E.
Chest Surgeons	... Mr. F. R. Edwards. Mr. W. F. Nicholson.
Gynaecological Surgeon ...	... Mr. M. M. Datnow.
Ophthalmic Surgeon	... Mr. J. A. McCann.
Honorary Urological Surgeon	... Professor C. A. Wells.
Urological Surgeon ...	... Mr. J. Cosbie Ross
Ear, Nose and Throat Specialist	... Mr. G. G. Mowat.
Anaesthetists for chest surgery	... Dr. J. Halton. Dr. T. Dinsdale.

Thoracic Surgery.

Consultant Adviser in Thoracic Surgery	... Mr. H. Morriston Davies.

High Carley Sanatorium (130 beds).

Chest Surgeon	... Mr. W. F. Nicholson.
Anaesthetist	... Dr. T. Dinsdale.

Elswick Sanatorium (70 beds).

Chest Surgeons	... Mr. F. R. Edwards. Mr. W. F. Nicholson.
Anaesthetist	... Dr. J. Halton

Visiting Dental Surgeons.

High Carley Sanatorium ...	... Mr. A. Miller.
Elswick Sanatorium ...	... Dr. R. D. Allison.
Wrightington Hospital ...	... Mr. J. J. Ward.

Senior Administrative Staff.

Messrs. H. F. Hughes, M.A., F.S.S. (administrative assistant); H. Bradshaw (chief clerk), E. F. B. Hindle (chief steward), I. Parker, P. Boardman, J. Totty and M. H. Seddon.

LANCASHIRE COUNTY COUNCIL.

COUNTY TUBERCULOSIS COMMITTEE.

To the Chairman and Members
of the Lancashire County Council.

Ladies and Gentlemen,

I have the honour to submit the Report of the Central Consultant Tuberculosis Officer, Dr. F. C. S. Bradbury, on the detailed work of the Tuberculosis Department for the year 1947.

I am,

Your obedient Servant,

F. HALL,

County Medical Officer of Health.

County Offices, Preston,
30th June, 1948.

REPORT OF THE CENTRAL CONSULTANT TUBERCULOSIS OFFICER FOR THE YEAR 1947.

Introduction.

In this, the last annual report on the working of the Lancashire tuberculosis service, it is gratifying to be able to draw attention to the new records reached by many of the statistics.

The number of notifications for all forms of tuberculosis (1,913) is the lowest ever recorded, and represents only 45 per cent. of the number registered in 1913, when the official tuberculosis service began.

Similarly, the death-rate from all forms of tuberculosis (0·45 per 1,000 population) is the lowest ever recorded.

The number of patients written off the dispensary registers as recovered cases (998) exceeds all previous records, and accounts to a large extent for the drop in the number of patients remaining under supervision. This number increased steadily from 7,367 in 1937 to 8,216 in 1946, and now stands at 8,008.

The table on page 14, showing a comparison of the work of the dispensaries in 1937 and 1947, indicates a doubling of the work in nearly every section.

On the institutional side also there has been a marked increase in the number of beds in use, from 932 at the end of 1937 to 1,218 at the end of 1947. The need for the increased number of beds is shown by the state of the waiting list, which averaged 78 in 1937 and 136 in 1947. Obviously more accommodation could be used, but although beds are available in empty hospital wards, the absence of nursing staff makes it impossible to use them.

The success which has been achieved by the Lancashire tuberculosis scheme would not have been possible without the co-operation of all the staff (medical, nursing, clerical and general), and it gives me pleasure to make full acknowledgement of their services.

At the time of writing (July, 1948) the Lancashire tuberculosis service, like other specialist services, has passed to the Regional Boards, and those associated with the service are proud that the transfer takes place when the Lancashire service is at the peak of its efficiency.

Both hospital and dispensary duties become the concern of the new Boards, but certain specified functions relating to tuberculosis remain with the Local Health Authority, *viz.*, prevention, care and after-care, and rehabilitation.

According to present indications, these functions will be carried out under a scheme of joint employment of medical staff by the Boards and the County Council, and it is confidently expected that the tuberculosis officer will not be conscious of any division of his duties as between the two authorities, but will continue to have as his pride and stimulus the duty he owes to his patient.

May the indications of the gradual suppression of tuberculosis among our people continue, and even gain strength under the new regime.

Tuberculosis Mortality and Incidence in 1947.

In 1947 the population of the Administrative County, as estimated by the Registrar-General, was 1,959,160.

The number of new pulmonary cases (1,394) notified under the Public Health (Tuberculosis) Regulations was lower than in any year since 1940, and there were 269 (16 per cent.) fewer than in 1946.

The decline has taken place in all the five-year age-groups (male and female) from 20 to 65 years of age.

Non-pulmonary notifications have continued the decline which began in 1944 and the figure of 519 for 1947 is the lowest number ever recorded in the Administrative County.

Although the deaths in 1947 from pulmonary tuberculosis show a small increase (10, or one per cent.) over 1946, the death-rate is lower than in 1946 and is, along with the rate for 1945, the lowest recorded.

The deaths from non-pulmonary tuberculosis are again the lowest on record.

At the end of 1947 there were on the dispensary registers 8,008 patients suffering from tuberculosis (pulmonary 5,570, non-pulmonary 2,438).

Applications for treatment under the County scheme were received during the year from 1,738 persons, of which number 147 were patients transferred from other authorities. Of the total applicants, 1,283 were diagnosed as suffering from pulmonary tuberculosis and 455 from non-pulmonary tuberculosis. The gross figure of 1,913 statutory notifications exceeds the number of applicants because of patients in mental hospitals, removals, etc., which cases do not come on the dispensary registers.

The prevalence of pulmonary tuberculosis among young female adults (aged 15-34) is shown in the new notifications during the past ten years :—1938, 336 new cases ; 1939, 377 ; 1940, 386 ; 1941, 417 ; 1942, 412 ; 1943, 393 ; 1944, 457 ; 1945, 424 ; 1946, 455 ; 1947, 391.

The following table shows since 1913 the new cases of tuberculosis notified each year in the Administrative County together with the case-rate per 1,000 of the population :—

Year	Notifications			Case-rate per 1,000 of the population		
	Pulmonary tuberculosis	Non-pulmonary tuberculosis	Tuberculosis (all forms)	Pulmonary tuberculosis	Non-pulmonary tuberculosis	Tuberculosis (all forms)
1913	2,700	1,592	4,292	1·54	0·90	2·45
1914	2,820	1,140	3,960	1·61	0·65	2·26
1915	2,872	1,128	4,000	1·64	0·64	2·28
1916	2,689	1,180	3,869	1·52	0·66	2·19
1917	2,375	1,062	3,437	1·35	0·60	1·96
1918	2,534	885	3,419	1·47	0·51	1·98
1919	2,105	847	2,952	1·21	0·48	1·70
1920	2,084	968	3,052	1·20	0·55	1·76
1921	2,044	899	2,943	1·16	0·51	1·67
1922	1,863	956	2,189	1·05	0·54	1·59
1923	1,937	1,188	3,125	1·09	0·66	1·75
1924	1,972	1,120	3,092	1·10	0·62	1·73
1925	1,846	1,027	2,873	1·03	0·57	1·60
1926	1,828	953	2,781	1·02	0·53	1·55
1927	1,794	1,045	2,839	0·99	0·58	1·57
1928	1,660	956	2,616	0·91	0·52	1·44
1929	1,517	913	2,430	0·83	0·50	1·34
1930	1,527	982	2,509	0·84	0·54	1·38
1931	1,460	862	2,322	0·80	0·47	1·28
1932	1,477	825	2,302	0·81	0·45	1·27
1933	1,453	780	2,233	0·80	0·43	1·23
1934	1,315	774	2,089	0·72	0·42	1·15
1935	1,305	672	1,977	0·71	0·36	1·08
1936	1,248	722	1,970	0·67	0·39	1·06
1937	1,314	745	2,059	0·70	0·40	1·10
1938	1,227	805	2,032	0·65	0·42	1·08
1939	1,252	757	2,009	0·65	0·39	1·05
1940	1,340	715	2,055	0·70	0·37	1·08
1941	1,414	732	2,146	0·73	0·38	1·11
1942	1,447	766	2,213	0·76	0·40	1·17
1943	1,456	778	2,234	0·78	0·42	1·20
1944	1,512	665	2,177	0·82	0·36	1·18
1945	1,511	641	2,152	0·82	0·34	1·17
1946	1,663	537	2,200	0·86	0·27	1·14
1947	**1,394**	**519**	**1,913**	**0·71**	**0·26**	**0·97**

Below are given the number of *deaths* from tuberculosis recorded in 1947, together with the death-rates per 1,000 of the population ; for comparison the average for the five years 1942–46 is also given :—

	Deaths.	Death-rate.
Pulmonary tuberculosis—		
1947	761 ...	0·38
5-year average (1942–46) ...	754 ...	0·40
Non-pulmonary tuberculosis—		
1947	136 ...	0·06
5-year average (1942–46) ...	174 ...	0·08
All forms—		
1947	897 ...	0·45
5-year average (1942–46) ...	928 ...	0·49

Pulmonary tuberculosis is again more prevalent among males than among females. Allowing for the difference in the population of the sexes, in 1947 for every 100 deaths of females there were 143 deaths of males, and for every 100 female notifications there were 159 male notifications.

The number of deaths from pulmonary tuberculosis in 1947 which escaped notification as tuberculous cases during life (*i.e.* non-notified fatal cases) was 56 or 7·3 per cent. of the total deaths from pulmonary tuberculosis. Deaths from non-pulmonary tuberculosis during 1947 which escaped notification during life numbered 28 or 20·5 per cent. of the total non-pulmonary deaths.

The following tables show the deaths from pulmonary and non-pulmonary tuberculosis recorded in the Administrative County during the years 1938–1947 analysed according to sex and age :—

	Deaths from Pulmonary Tuberculosis						
	All Ages	Age Groups—Years					
		0—14	15—24	25—34	35—44	45—64	65 and over
MALES—							
1938	472	2	58	98	99	183	32
1939	479	6	56	89	85	208	35
1940	503	11	57	89	105	197	44
1941	474	4	50	88	115	186	31
1942	442	3	57	86	99	167	30
1943	482	4	57	86	90	202	43
1944	459	5	49	64	90	208	43
1945	436	8	50	61	81	185	51
1946	462	7	42	70	99	192	52
1947	430	8	35	66	86	201	34
FEMALES—							
1938	330	10	100	95	53	62	10
1939	335	10	92	112	48	61	12
1940	373	14	119	100	67	52	21
1941	364	11	105	109	59	62	18
1942	334	8	100	87	54	72	13
1943	283	10	85	79	50	50	9
1944	314	7	96	105	48	41	17
1945	273	8	75	88	44	39	19
1946	289	8	67	98	55	46	15
1947	331	7	93	101	58	41	31

	Deaths from Non-Pulmonary Tuberculosis						
	All Ages	Age Groups—Years					
		0—14	15—24	25—34	35—44	45—64	65 and over
MALES—							
1938	91	34	21	6	9	12	9
1939	106	50	15	7	9	22	3
1940	102	45	19	13	10	9	6
1941	114	45	18	17	13	19	2
1942	94	44	12	12	12	12	2
1943	89	49	10	8	8	11	3
1944	106	54	11	14	9	13	5
1945	75	48	5	3	7	8	4
1946	82	43	6	7	9	11	6
1947	69	34	13	3	3	12	4
FEMALES—							
1938	86	37	14	13	5	13	4
1939	89	32	20	15	6	13	3
1940	86	33	20	12	7	11	3
1941	107	56	16	13	9	12	1
1942	102	42	18	18	9	15	—
1943	88	34	21	8	10	8	7
1944	76	34	12	12	7	5	6
1945	86	44	12	6	8	11	5
1946	72	31	14	6	5	12	4
1947	67	34	9	5	7	10	2

The table below shows the number of deaths registered and the death-rates recorded during the years 1913 to 1947 in the Administrative County :—

Year	Deaths			Death-rate per 1,000 of population		
	Pulmonary tuberculosis	Non-pulmonary tuberculosis	Tuberculosis (all forms)	Pulmonary tuberculosis	Non-pulmonary tuberculosis	Tuberculosis (all forms)
1913	1,441	527	1,968	0·82	0·30	1·12
1914	1,523	572	2,095	0·87	0·32	1·19
1915	1,614	555	2,169	0·96	0·34	1·30
1916	1,685	471	2,156	1·04	0·29	1·33
1917	1,584	466	2,050	1·00	0·30	1·30
1918	1,652	435	2,087	1·07	0·28	1·35
1919	1,339	358	1,697	0·80	0·22	1·02
1920	1,323	396	1,719	0·76	0·23	0·99
1921	1,301	376	1,677	0·73	0·21	0·95
1922	1,362	389	1,751	0·77	0·22	0·99
1923	1,250	412	1,662	0·70	0·23	0·93
1924	1,215	339	1,554	0·68	0·19	0·87
1925	1,205	361	1,566	0·67	0·20	0·87
1926	1,158	286	1,444	0·64	0·16	0·80
1927	1,105	296	1,401	0·61	0·16	0·77
1928	1,066	287	1,353	0·58	0·15	0·74
1929	1,102	279	1,381	0·60	0·15	0·76
1930	1,046	253	1,299	0·57	0·14	0·71
1931	1,021	266	1,287	0·56	0·14	0·71
1932	975	238	1,213	0·54	0·13	0·67
1933	1,010	232	1,242	0·55	0·12	0·68
1934	848	231	1,079	0·46	0·12	0·59
1935	855	189	1,044	0·46	0·10	0·57
1936	856	192	1,048	0·46	0·10	0·56
1937	865	198	1,063	0·46	0·10	0·57
1938	802	177	979	0·42	0·09	0·52
1939	814	195	1,009	0·42	0·10	0·52
1940	876	188	1,064	0·46	0·09	0·55
1941	838	221	1,059	0·43	0·11	0·55
1942	776	196	972	0·41	0·10	0·51
1943	765	177	942	0·41	0·09	0·50
1944	773	182	955	0·42	0·09	0·51
1945	709	161	870	0.38	0.08	0.47
1946	751	154	905	0.39	0.08	0.47
1947	**761**	**136**	**897**	**0.38**	**0.06**	**0.45**

Deaths of children from pulmonary and from non-pulmonary tuberculosis during the years 1929 to 1947 are shown below :—

Deaths from Tuberculosis among Children in the Administrative County.

	5-year average						
	1929-33	1934-38	1939-43	1944	1945	1946	1947.
Pulmonary tuberculosis—							
Aged 0—4 years ...	5	3	7	8	5	6	11
Aged 5—14 years ...	21	11	8	4	11	9	4
Non-pulmonary tuberculosis—							
Aged 0—4 years ...	70	54	59	66	56	50	41
Aged 5—14 years ...	42	29	27	22	36	24	27

The tuberculosis deaths and death-rates in the various County districts and in the dispensary areas are given in Appendix IV., page 26.

Co-operation with County Boroughs and the Isle of Man.

The County Council, by agreement with Blackburn Corporation, in 1944 undertook responsibility for the Borough tuberculosis scheme. Blackburn was consequently assimilated in Dispensary Area 2, and Dr. G. Barker Charnock, the consultant tuberculosis officer for Area 2, became responsible for the tuberculosis work of the Borough, including x-ray examinations, artificial light treatment, A.P. re-fills, etc.

During 1947, 647 new Borough patients were examined, and at the end of the year there were 420 patients on the Blackburn dispensary register, of whom 80 were undergoing institutional treatment.

Co-operation on sections of the tuberculosis scheme, *e.g.*, institutional treatment, major thoracic surgery, artificial pneumothorax re-fills, exists with several of the Lancashire County Boroughs, namely, Southport, Bootle, Preston, etc., and with the Isle of Man Local Government Board.

With regard to the last-named, one of our tuberculosis officers (Dr. J. L. Armour) visits the island monthly to examine patients and to supervise their treatment at the dispensary and the sanatorium ; Manx patients requiring specialised treatment are sent to our Lancashire institutions.

Work of the Dispensary Organisation.

Attention is drawn in the following statement to the very large increases in new cases examined, X-ray examinations, and artificial pneumothorax refills when the years 1947 and 1937 are compared. The increase in new cases reflects the ever-growing use made by general practitioners of our consultant physicians for all kinds of chest complaints, tubercular and non-tubercular :—

	1937.	1946.	1947
New cases examined	4,799	7,462	7,875
New contacts examined	1,030	1,981	2,277
Re-examinations of " old " patients and " old " contacts	24,505	37,388	41,473
Patients' attendances at dispensaries	25,707	44,456	48,828
Visits by tuberculosis officers to patients' homes	4,627	2,375	2,797
X-ray examinations made in connection with dispensary work	11,091	32,255	40,032
Sputum examinations made in connection with dispensary work ...	7,734	10,531	10,759
Artificial pneumothorax refills given at the dispensaries	2,212	8,450	11,201

TABLE A.

Dispensary Organisation.

Areas, Medical Staff, Nursing Staff, Dispensaries, and Times of Dispensary Sessions.

1st July, 1948.

Table A.—List of Tuberculosis Dispensaries in use on 1st July, 1948, and the Tuberculosis Officers for the Dispensary Areas.

DISPENSARY AREA.	DISTRICTS.	Estimated POPULATION 1947.	Area MEDICAL STAFF.	NURSING STAFF.	DISPENSARIES.	Days and Hours of DISPENSARY SESSIONS (Distinct from Home Visiting, attending Sanatoria, Hospitals and Care Committees, etc.).
1	Adlington Blackrod Carnforth Chorley (B.) Chorley (R.) Fulwood Garstang (R.), part of, consisting of parishes of— Barnacre-with-Bonds Bilsborrow Garstang (R.) *cont.* Bleasdale Cabus Catterall Claughton Forton Garstang Kirkland Myerscough Natchy Nether Wyresdale Winmarleigh Horwich Lancaster (B.) Lancaster (R.) Leyland Longridge Lunesdale (R.) Morecambe & Heysham (B) Preston (R.) Walton-le-Dale Withnell Acreage 296,020.	279,462	Consultant Tuberculosis Officer— Dr. H. J. Villiers, The Dispensary, 8, Middle Street, Lancaster. Assistant Tuberculosis Officer— Dr. C. V. Stevenson.	Nurse G. M. Sanderson Nurse A. Dickinson Nurse I. Wilkinson Nurse E. M. Crone	LANCASTER (Chief), 8, Middle Street (Tel. No. 568). (X-ray and Artificial Light Apparatus). CHORLEY (Branch), 34, St. Thomas's Road (Tel. No. 2763). (X-ray and Artificial Light Apparatus). PRESTON (Branch), 12, Walton's Parade (Tel. No. 2910). (X-ray and Artificial Light Apparatus).	Monday morning by appointment. Other days and evenings by appointment. Tuesday, 10 a.m. Other days and evenings by appointment. Wednesday, 10 a.m. Other days and evenings by appointment.
2	Accrington (B.) Bacup (B.) Barrowford Blackburn (R.) Brierfield Burnley (R.) Church Clayton-le-Moors Clitheroe (B.) Clitheroe (R.) Colne (B.) Darwen (B.) Great Harwood Haslingden (B.) Nelson (B.) Oswaldtwistle Padiham Rawtenstall (B.) Rishton Trawden Turton Acreage 177,025.	302,424	Consultant Tuberculosis Officer— Dr. G. B. Charnock, The Dispensary, High Lea, 108a, Whalley Road, Accrington. Assistant Tuberculosis Officers— Dr. R. Stalker. Dr. J. N. Parker.	Nurse W. Hall Nurse M. Haworth Nurse M. Sheridan Nurse E. H. Scott Nurse S. Midgley Nurse E. C. Watterson	ACCRINGTON (Chief), High Lea, 108a, Whalley Road (Tel. No. 2443). (X-ray and Artificial Light Apparatus). DARWEN (Branch), 20, Railway Road (Tel. No. 408). NELSON (Branch), 64, Carr Road (Tel. No. 507). (X-ray and Artificial Light Apparatus). STACKSTEADS (Branch), Knott Hill House (Tel. No. Bacup 201). (Artificial Light Apparatus).	Tuesday, 1-30 p.m. Wednesday, 1-30 p.m. Monday, 10 a.m. Tuesday, 1-30 p.m. Friday, 10-30 a.m. Friday, 10 a.m.
	Blackburn (C.B.) Acreage 8,080.	108,390		Nurse M. Evans	BLACKBURN, 40, Duke Street (Tel. No. 6644). (X-ray and Artificial Light Apparatus).	Monday, 9-30 a.m. to 12 noon and 1-30 to 3-30 p.m. by appointment. Wednesday, 9-30 a.m. to 12 noon and 1-30 to 3-30 p.m. by appointment.
3	Asbton-under-Lyne (B.) Audenshaw Chadderton Crompton Denton Droylsden Failsworth Heywood (B.) Lees Limehurst (R.) Littleborough Middleton (B.) Milnrow Mossley (B.) Prestwich (B.) Radcliffe (B.) Ramsbottom Royton Tottington Wardle Whitefield Whitworth Acreage 81,801.	387,111	Consultant Tuberculosis Officer— Dr. G. Fletcher, The Dispensary, Lees Street, Ashton-under-Lyne. Assistant Tuberculosis Officers— Dr. E. Clifford-Jones. Dr. J. S. Law.	Nurse W. Swift Nurse M. Reilly Nurse S. G. Williams Nurse L. M. Krogman Nurse G. E. Crebbin Nurse A. Flynn Nurse N. D. Hanmer	ASHTON-UNDER-LYNE (Chief), Lees Street (Tel. No. 1775). (X-ray and Artificial Light Apparatus). CHADDERTON (Branch), Brook Street (Tel. No. Main 1671). (X-ray Apparatus). RADCLIFFE (Branch), 41, Darbyshire Street (Tel. No. 2323). (X-ray and Artificial Light Apparatus). ROCHDALE (Branch), 168, Drake Street (Tel. No. 3892).	Monday, 10 a.m., X-ray exams. Tuesday, 2 p.m. Friday, 10 a.m. 1st Tuesday of month, 6 p.m. Monday, 2 p.m. Wednesday, 10 a.m. 2nd Monday of month, 6 p.m. Wednesday, 2 p.m. 3rd Wednesday of month, 6 p.m Thursday, 10-30 a.m. 2nd Thursday of month, 6 p.m.
4	Atberton Eccles (B.) Farnworth (B.) Golborne Irlam Kearsley Leigb (B.) Little Lever Stretford (B.) Swinton and Pendlebury (B.) Tyldesley Urmston Westhougbton Worsley Acreage 58,029.	379,545	Consultant Tuberculosis Officer— Dr. J. L. Armour, The Dispensary, 13, Church Street, Leigh. Assistant Tuberculosis Officers— Dr. W. Fettes. Dr. P. E. Cosgrove.	Nurse A. Boardman Nurse M. Walker Nurse H. M. Shakespeare Nurse M. Gibson Nurse F. G. Smith Nurse M. B. Jones Nurse K. Blakemore	LEIGH (Chief), 13, Church Street (Tel. No. 258). (X-ray Apparatus). ECCLES (Branch), 28 & 30, Gilda Brook Road (Tel. No. 3533). (X-ray and Artificial Ligbt Apparatus). FARNWORTH (Branch), 19–23, Darley Street (Tel. No. 63). PENDLEBURY (Branch), 121, Station Road (Tel. No. Swinton 1895). STRETFORD (Branch), 14, Derbyshire Lane (Tel. No. Longford 2010).	Wednesday, 10 a.m. Thursday, 10 a.m., X-ray exams. Friday, 10 a.m. 2nd Tuesday of month, 6-30 p.m. Tuesday, 2 p.m.; 2-30 p.m., X-ray exams. Thursday, 2-30 p.m., X-ray exams. Friday, 10 a.m. 1st Wednesday of month, 6-30 p.m. Tuesday, 10 a.m. Friday by appointment. 3rd Thursday of month, 6-30 p.m. Monday, 2 p.m. Last Thursday of month, 6-30 p.m. Tuesday, 10 a.m. Thursday, 10 a.m. Last Monday of month, 6-30 p.m.
5	Crosby (B.) Formby Haydock Huyton-with-Roby Litberland Newton-le-Willows Ormskirk Prescot Rainford Skelmersdale Warrington (R.) West Lancashire (R.) Whiston (R.) Widnes (B.) Acreage 168,847.	361,007	Consultant Tuberculosis Officer— Dr. C. Berry, The Dispensary, "Ellesmere," Crosby Road North, Waterloo. Assistant Tuberculosis Officers— Dr. D. O. Hughes. Dr. P. A. Morris.	Nurse M. J. McKeown Nurse D. G. Smith Nurse L. Farquhar Nurse M. A. Judge Nurse A. E. Webster Nurse A. K. Rayner	WATERLOO (Chief), "Ellesmere," Crosby Road North (Tel. No. Waterloo 688). (X-ray and Artificial Light Apparatus). HUYTON (Branch), 14, Blue Bell Lane (Tel. No. 383). (X-ray and Artificial Light Apparatus). ST. HELENS (Branch), 90, Hardshaw Street (Tel. No. 3916). (Artificial Light Apparatus). WIDNES (Branch), Chapel Street (Tel. No. 2156). (X-ray and Artificial Light Apparatus).	Monday, 2 p.m. Wednesday, 2 p.m. Evenings by appointment. Tuesday, 2 p.m. Thursday, 2 p.m. Evenings by appointment. Tuesday, 2 p.m. Evenings by appointment. Monday, 10 a.m. to 12 noon. Friday, 2 to 4 p.m. Evenings by appointment.
Furness	Dalton-in-Furness Grange-over-Sands Ulverston Ulverston (R.) Acreage 140,549.	39,639	Consultant Tuberculosis Officer— Dr. G. Leggat, High Carley Sanatorium, near Ulverston (Tel. No. Ulverston 2304).	Nurse F. M. Cummings	ULVERSTON, 69, Albion Place, Lightburn Avenue (Tel. No. 2145). (Artificial Light Apparatus). (X-ray Apparatus at High Carley Sanatorium).	Tuesday, 10 a.m. Thursday, 10 a.m.
Fylde	Fleetwood (B.) Fylde (R.) Garstang (R.), part of, consisting of parishes of— Great Eccleston Hambleton Garstang (R.) *cont.* Inskip-with-Sowerby Out Rawcliffe Pilling Stalmine-with-Stainall Upper Rawcliffe Kirkham Lytham St. Annes (B.) Poulton-le-Fylde Preesall Thornton Cleveleys Acreage 74,441.	102,726	Consultant Tuberculosis Officer— Dr. A. B. Jamieson, Elswick Sanatorium, near Kirkham. Assistant Tuberculosis Officer— Dr. J. N. Parker (2 days per week)	Nurse E. Watterson	FLEETWOOD, 23, Poulton Road (Tel. No. 282). (X-ray and Artificial Light Apparatus). ELSWICK Sanatorium, near Kirkham (Tel. No. Great Eccleston 22). (X-ray Apparatus).	Tuesday, 9 a.m. to 12 noon. By appointment.
Wigan County	Abram Ashton-in-Makerfield Aspull Billinge & Winstanley Hindley Ince-in-Makerfield Orrell Standish-with-Langtree Upholland Wigan (R.) Acreage 40,950. Total acreage of Admin. County 1,037,662 Blackburn .. 8,080	107,246 1,959,160 108,390	Consultant Tuberculosis Officer— Dr. E. H. W. Deane, Wrightington Hospital, Appley Bridge, near Wigan, (Tel. No. Appley Bridge 338).	Nurse E. Walters Nurse M. J. Evans	WIGAN, 3, Mesnes Park Terrace (Tel. No. 3172). (X-ray and Artificial Light Apparatus).	Monday, 9-30 a.m. Thursday, 9-30 a.m. Evenings by appointment.

TSC. 48/3684.

TUBERCULOSIS DEPARTMENT,
COUNTY OFFICES,
PRESTON. (Tel. 4868).

Mass Radiography Units.

No. 1 UNIT		No. 2 UNIT	
Medical Director	... Dr. P. Haslam.	Medical Director	... Dr. H. N. Bleasdale.
Organising Secretary	... Mr. A. L. Wright.	Organising Secretary	... Mr. T. Naylor.
Senior Radiographer	... Miss W. M. Kent.	Senior Radiographer	... Miss Hilda Thompson.

	1937.	1946.	1947.
Pneumoperitoneum refills given at the dispensaries	—	116	696
Patients' dispensary attendances for artificial light treatment	27,604	10,734	6,395
Consultations with medical practitioners—			
Personal	592	339	420
Other	6,822	9,138	9,757
Examinations of persons referred by Medical Boards under the National Service (Armed Forces) Act, 1939 ...	—	302	159
Examinations of entrants to industry under the Sandstone (Silicosis) Scheme, 1929	62	9	5
Visits by tuberculosis health visitors to patients' homes	41,493	35,646	34,330

A more detailed return of some of the work of the dispensaries shown above during the year 1947 is given on page 22.

Thoracic Surgery.

The treatment of pulmonary tuberculosis relies on thoracic surgery to an ever-increasing extent, and our Lancashire scheme is no exception to this generalisation.

Mr. F. Ronald Edwards and Mr. Frank Nicholson are the thoracic surgeons. Mr. H. Morriston Davies occupies the post of consultant adviser in thoracic surgery, and holds monthly clinics at Wrightington Hospital, near Wigan, at which the tuberculosis medical staff of the County—and occasionally of other areas—meet and discuss their difficulties under his guidance.

The unit for major thoracic surgery for men is at the High Carley Sanatorium and for women at the Wrightington Hospital. In addition thoracoscopy, division of adhesions and phrenic nerve operations are performed at the Peel Hall Pulmonary Hospital and the Rufford Pulmonary Hospital. Dr. Deane, the Consultant Tuberculosis Officer in Wigan County Dispensary Area, performs these operations at Wrightington and Rufford. Other members of the staff are acquiring experience of the technique from the thoracic surgeons.

At the dispensaries a great many refills for artificial pneumothorax treatment are carried out. Thus at the end of 1947, 437 patients were receiving artificial pneumothorax treatment at the dispensaries and refills for the year totalled 11,201 ; in addition, 35 patients were having pneumoperitoneum treatment, and 696 refills were given.

The following statement shows the amount of thoracic surgery done at our institutions, and the big increase during 1947 compared with the average for the preceding three years :—

	1947.	3-year average 1944–46.
Thoracoplasty operations	181	109
Phrenic nerve operations	135	49
Thoracoscopy examinations	123	70
Thoracoscopy and division of adhesions ...	156	115
Bronchoscopy examinations	16	25
Pneumoperitoneum—		
Inductions	113	34
Refills	2,099	548
Artificial pneumothorax—		
Inductions	378	322
Refills	10,599	7,395

A census of the 5,570 pulmonary patients (adults, children, males, females, early, intermediate and advanced stages) on the dispensary registers at the end of 1947 showed that 1,805, or 32 per cent., had either received major or minor surgical treatment for their chest condition or such treatment had been attempted.

Non-Tuberculous Chest Conditions.

Non-tuberculous chest cases, *e.g.*, carcinoma, empyema, abscess, bronchiectasis, aneurism, are sent in the first instance by general practitioners to the dispensaries where they are examined and reported on by the County tuberculosis medical staff, and if necessary, the cases are discussed at the clinic described above, or at the clinic of Mr. Graham Bryce at Park Hospital, Davyhulme. Then, after confirmation by Mr. Morriston Davies or Mr. Graham Bryce, arrangements may be made on behalf of the County Medical Officer of Health for treatment by Mr. Davies at the Chest Centre, Broadgreen Hospital, Liverpool, or by Mr. Bryce at Park Hospital, Davyhulme, and occasionally at Manchester Royal Infirmary or Baguley E.M.S. Hospital. Alternatively, in cases of urgency the tuberculosis officers communicate direct with Mr. Davies or Mr. Bryce.

Below are given the numbers of such patients admitted to the various hospitals during 1947, together with the diagnoses :—

Broadgreen Hospital :—

Bronchial carcinoma, 11 ; bronchiectasis, 31 ; bronchitis, 5 ; empyema, 1 ; encysted pleural effusion, 1 ; Hodgkin's disease, 1 ; lung abscess, 2 ; patent ductus arteriosus, 1 ; pneumonia, 1 ; retro-sternal goitre, 1 ; sarcoma of lung, 1 ; segmental collapse of lung, 1 ; simple tumour of lung, 1 ; diagnosis not established, 4.

Park Hospital :—

Atelectasis, 1 ; bronchial carcinoma, 11 ; bronchiectasis, 21 ; congenital cystic lung, 3 ; innominate artery dilation, 1 ; pretracheal abscess, 1 ; segmental collapse of lung, 1 ; thoracic aneurism, 1 ; diagnosis not established, 3.

Manchester Royal Infirmary :—

Bronchial carcinoma, 3 ; neoplasm of lung, 1 ; pneumoconiosis, 1.

Baguley E.M.S. Hospital :—

Bronchial carcinoma, 2 ; bronchiectasis, 1 ; pneumonia, 1 ; diagnosis not established, 2.

X-ray Examinations.

X-ray apparatus is provided for the consultant tuberculosis officer of each area at his institution and at one or more dispensaries ; of the 24 dispensaries, 16 are equipped with X-ray apparatus.

Below is given the X-ray work done in 1947 compared with 1937 and 1946 :—

	Screen Examinations			Skiagrams		
	1937	1946	1947	1937	1946	1947
At dispensaries	3,265	15,041	20,458	7,826	17,214	19,574
At sanatoria and hospitals	5,616	9.127	13,406	5,417	8,194	8,958

The figures shew the great use made of the X-ray plants by the medical staff. The installation of apparatus at many of the branch dispensaries is valuable to the tuberculosis officer and a convenience to the patients who have a less distance to travel.

Mass Miniature Radiography.

The Lancashire mass miniature radiography unit commenced operations in October, 1943, being the first among the local authorities in the country. The system of working, the staff, and a description of the apparatus were given in the annual report for 1943, and a report on the results so far obtained was given in the annual report for 1945.

A second unit was allotted to the County Council in May, 1947. Dr. H. N. Bleasdale was appointed medical director, and the unit commenced operations in January, 1948.

Dr. P. Haslam took over the duties of medical director of No. 1 Unit on the 1st May, 1948, in succession to Dr. J. N. Parker, who resumed normal duties as an assistant tuberculosis officer after completing his tour of duty with the miniature radiography unit.

Surveys carried out during 1947 by No. 1 Unit resulted in the x-raying of 41,110 patients.

Maintenance Allowances for Tuberculous Patients and their Dependants.

The Government scheme for tuberculosis authorities to grant allowances to certain classes of patients suffering from pulmonary tuberculosis and their dependants was put into operation in the Administrative County in 1943.

The following statement shows the work done during 1947 in respect of County and Blackburn patients :—

Applications received	Maintenance Allowances	Discretionary Allowances	Special Payments
Eligible and assessment made	699	189	38
Ineligible according to conditions of Memo. 266/T of Ministry of Health	152	142	69
Total	851	331	107

Average grant per week in 1947, per eligible applicant :—

	£	s.	d.
Maintenance allowances (including winter fuel)	1	6	2
Discretionary allowances	0	4	3
Special payments (excluding free travel vouchers)	0	5	2

Total net amount of allowances paid to patients or dependants during the year 1947 (excluding Blackburn County Borough) :—

	£	s.	d.
Maintenance allowances	43,197	0	5
Discretionary allowances	1,541	12	9
Special payments	264	3	8
	£45,002	16	10

Total number of individual patients in receipt of allowances of one kind or another on the 31st December, 1947 ... 548

On the 1st June, 1948, there were 576 individual patients (County 537, Blackburn 39) receiving allowances—Maintenance allowances 558, discretionary allowances 188, special payments 19.

The payment of tuberculosis maintenance allowances under Memo. 266/T ceased on 4th July, 1948, when by the operation of the National Assistance Act, 1948, the responsibility for assisting tuberculous persons outside national health insurance passed to the Assistance Board.

Examination of Recruits.

The civilian medical boards set up under the National Service (Armed Forces) Act, 1939, for the examination of recruits, co-operate with local authorities by sending men and women suspected to be suffering from tuberculosis to the tuberculosis officers for a special examination, including X-ray.

The following table shows the number of recruits examined by the County tuberculosis officers during the years 1940–47.

	1940	1941	1942	1943	1944	1945	1946	1947
Total number of recruits referred by medical boards	614	868	861	912	612	474	300	159
Number of above who were known to the County tuberculosis officers ...	78	131	163	103	80	52	42	25
Net number of recruits examined by County tuberculosis officers for first time	536	737	698	809	532	422	258	134
Number found to be suffering from tuberculosis—								
Active cases	27 (5·0%)	15 (2·0%)	15 (2·1%)	18 (2·2%)	7 (1·3%)	7 (1·6%)	3 (1·1%)	— —
Quiescent cases	15 (2·7%)	19 (2·5%)	4 (0·5%)	1 (0·1%)	7 (1·3%)	3 (0·7%)	5 (1·9%)	1 (0·7%)
Number not previously known to County tuberculosis officers but who had received treatment under another authority—								
Active cases	3	3	3	6	2	—	—	—
Quiescent cases	—	6	8	3	1	3	1	—

The total number of recruits examined by the medical boards during this period is not known.

Under the Public Health (Tuberculosis) Regulations, 1940, particulars of men who are registered as having suffered, or as suffering from, tuberculosis continue to be furnished to the Ministry of Labour and National Service, but only in respect of those born in the year 1930.

Pathological Laboratory.

The laboratory at the High Carley Sanatorium, opened in March, 1942, was established for the Emergency Hospital Service and the Public Health Service in the Furness area, including Barrow-in-Furness.

For providing these laboratory facilities the County Council charge a nominal rental: certain pathological work connected with the County tuberculosis scheme is carried out at the laboratory without charge.

During 1947 a total of 7,813 specimens were examined.

Tuberculous Pensioners.

Of the 8,008 patients under the supervision of the dispensary staff at the end of 1947, 942 were persons discharged from H.M. Forces and (from January, 1943) the Merchant Navy, whose disease was held by the Ministry of Pensions to be attributable to war service (14 being in respect of the 1914–18 War).

The cost of their institutional treatment and travelling expenses to and from institutions is met out of the funds of the Ministry of Pensions, to whom detailed claims for refund are submitted from time to time.

Tuberculous Service Cases.

Under an arrangement made by the Ministry of Health, members of H.M. Forces ordinarily resident in the County Area who are found to be suffering from tuberculosis, are transferred to County sanatoria or hospitals but are retained in the services until such time as medical or surgical finality is reached. The Service Departments remain responsible for the maintenance and treatment of cases, whose disability is accepted as attributable to or aggravated by service, up to a maximum period of 30 months from the date of first absence from duty on account of the disability.

During 1947, 112 service patients were admitted to sanatoria and pulmonary hospitals, 126 were discharged, two died, and at the end of the year 63 were under treatment.

Institutional Accommodation and Waiting List.

For the year 1947 the average accommodation for *County* patients at tuberculosis institutions was as follows: Pulmonary tuberculosis 904 beds, non-pulmonary tuberculosis 225 beds, total 1,129.*

From time to time, when there are no suitable patients on the County waiting list, beds are let to county borough councils. During 1947 the average number of beds let to other authorities was: Pulmonary 30, non-pulmonary 14.

In relation to population and deaths, the 1,129 bed accommodation provides the following:—

Pulmonary tuberculosis ...	1 bed per 2,167 of the population, or 118 beds per 100 pulmonary deaths.
Non-pulmonary tuberculosis ...	1 bed per 8,707 of the population, or 165 beds per 100 non-pulmonary deaths.

The waiting list, averaged at monthly periods during the year, was as follows:—

Pulmonary tuberculosis ...	... Males 62, females 48.
Non-pulmonary tuberculosis	... Males 18, females 8.

The position in December, 1947, was: Pulmonary tuberculosis—males 47, females 41; non-pulmonary tuberculosis—males 20, females 1. For interest the figures for June, 1948, were: Pulmonary—males 78, females 75; non-pulmonary—males 17, females 22; total 192.

During the year, 1,742 County patients suffering from pulmonary tuberculosis were admitted to sanatoria and pulmonary hospitals, 1,489 were discharged, and 231 died in the institutions; in addition, 59 observation cases were admitted, 55 were discharged, and two died.

Admissions of County patients suffering from non-pulmonary tuberculosis to general and special hospitals during 1947 totalled 309, the discharges numbered 307, and 19 patients died in the institutions; 70 observation cases were also admitted, 53 were discharged, and one died.

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* This figure is exclusive of the beds occupied by Blackburn patients.

Visits of Overseas Medical Officers.

The County tuberculosis scheme continued to interest medical officers from overseas, and the following have visited Lancashire to study the scheme :—

Dr. S. A. Razig, a Sudanese Medical officer. Visited High Carley Sanatorium, Wrightington Hospital, and Ashton-under-Lyne Dispensary from 2nd January to 7th February, 1948.

Dr. Suen Chung-Liang, a Chinese doctor from Shanghai, and holder of a visiting scholarship provided by the Manchester Fund of the British United Aid to China. Visited Ashton-under-Lyne Dispensary and Wolstenholme Hospital, Leigh Dispensary and Peel Hall Hospital, Wrightington Hospital, and High Carley Sanatorium from 23rd February to 3rd April, 1948.

Dr. D. B. Rosenthal, of Australia. Visited Central Office, Wrightington Hospital, and Ashton-under-Lyne Dispensary on 7th and 8th May, 1948.

Dr. A. I. Motala, of Tanganyika, holder of an N.A.P.T. Colonial scholarship. Visited Wrightington Hospital, Ashton-under-Lyne Dispensary, and High Carley Sanatorium from 16th June to 17th July, 1948.

Cost of the Tuberculosis Scheme.

The total estimated expenditure (including dispensaries, institutional accommodation, mass miniature radiography, maintenance allowances, Blackburn C.B. work, and administration expenses) was £423,308.

The estimated income (including £35,000 from the Government funds for tuberculous ex-servicemen, £49,000 from the Government for maintenance allowances, and £13,800 from Blackburn C.B.) was £126,550.

The estimated net expenditure for 1947–48, therefore, was £296,758, equal to £154 per 1,000 of the population and a rate in the pound of 6·24d.

For the period 1st April to 5th July, 1948, when the Regional Hospital Boards take over most of the responsibilities of the County Tuberculosis Committee, the estimated net expenditure on the tuberculosis services is £90,772.

Co-operation with Medical Practitioners.

Co-operation with the medical practitioners and the medical officers and sanitary inspectors of County district councils continues most cordial and satisfactory. Of the " new " persons (excluding contacts) examined during 1947, 97 per cent. were referred by medical practitioners, etc., to the tuberculosis officers for an opinion as to diagnosis.

F. C. S. BRADBURY,
Central Consultant Tuberculosis Officer.

County Offices, Preston,
23rd June, 1948.

APPENDIX I.

(*a*) Return showing the Work of the County Dispensaries during the year 1947.

Diagnosis	Pulmonary				Non-Pulmonary				Total				Grand Total
	Adults		Children		Adults		Children		Adults		Children		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
A.—New Cases examined during the year (excluding contacts) :—													
(*a*) Definitely tuberculous	576	446	24	25	79	119	123	104	655	565	147	129	1,496
(*b*) Diagnosis not completed	—	—	—	—	—	—	—	—	29	19	15	8	71
(*c*) Non-tuberculous ...	—	—	—	—	—	—	—	—	2.561	2,545	627	575	6,308
B.—Contacts examined during the year :—													
(*a*) Definitely tuberculous	5	15	12	13	—	1	—	2	5	16	12	15	48
(*b*) Diagnosis not completed	—	—	—	—	—	—	—	—	—	3	1	1	5
(*c*) Non-tuberculous ...	—	—	—	—	—	—	—	—	421	844	506	453	2,224
C.—Cases written off the dispensary registers as :—													
(*a*) Recovered	214	137	4	6	175	206	123	133	389	343	127	139	998
(*b*) Non-tuberculous (including any such cases previously diagnosed and entered on the dispensary registers as tuberculous)	—	—	—	—	—	—	—	—	2,993	3,400	1,137	1,030	8,560
D.—Number of Cases on dispensary registers on 31st December, 1947 :—													
(*a*) Definitely tuberculous	3,071	2,316	105	78	617	788	553	480	3,688	3,104	658	558	8,008
(*b*) Diagnosis not completed	—	—	—	—	—	—	—	—	28	22	15	10	75

1.—Number of cases on dispensary registers on 1st January, 1947	8,281
2.—Number of cases transferred from other areas and cases returned after discharge under Head 3 in previous years	303
3.—Number of cases transferred to other areas, cases not desiring further assistance under the tuberculosis scheme, and cases "lost sight of"	326
4.—Cases written off during the year as dead (all causes)	769
5.—Number of attendances at the dispensaries (including contacts)	44,828
6.—Number of consultations with medical practitioners :—	
(*a*) Personal	420
(*b*) Other	9,757
7.—Number of visits by tuberculosis officers to homes (including personal consultations)	2,797
8.—Number of visits by nurses or health visitors to homes for dispensary purposes ...	34,330
9.—Number of :—	
(*a*) Specimens of sputum, etc., examined ...	10,759
(*b*) X-ray examinations made in connection with dispensary work	40,032
10.—Number of "recovered" cases restored to dispensary registers, and included in A (*a*) and A (*b*) above	54
11.—Number of "T.B. plus" cases on dispensary registers on 31st December, 1947	3,620

Number of dispensaries for the treatment of tuberculosis (excluding centres used only for special forms of treatment).

Provided by the Council ... ... 24 | Provided by Voluntary Bodies ... Nil.

Number of examinations of persons referred by Civilian Medical Boards under the National Service (Armed Forces) Act, 1939	159
Number of examinations of entrants to industry under Sandstone (Silicosis) Scheme, 1929	5
Number of visits by tuberculosis officers to sanatoria, and pulmonary, special, and public assistance hospitals	439
Number of special visits by tuberculosis officers, *i.e.*, interviews with medical officers of health, hospital officials	114

APPENDIX I.—*Continued.*

(*b*) Return showing the Work of the Blackburn Dispensary during the year 1947.

Diagnosis	Pulmonary				Non-Pulmonary				Total				Grand Total
	Adults		Children		Adults		Children		Adults		Children		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
A.—New Cases examined during the year (excluding contacts):—													
(*a*) Definitely tuberculous	36	26	3	2	3	9	4	4	39	35	7	6	87
(*b*) Diagnosis not completed	—	—	—	—	—	—	—	—	7	5	5	6	23
(*c*) Non-tuberculous ...	—	—	—	—	—	—	—	—	210	118	53	45	426
B.—Contacts examined during the year:—													
(*a*) Definitely tuberculous	1	1	—	—	1	1	—	1	2	2	—	1	5
(*b*) Diagnosis not completed	—	—	—	—	—	—	—	—	—	—	—	—	—
(*c*) Non-tuberculous ...	—	—	—	—	—	—	—	—	26	45	14	21	106
C.—Cases written off the dispensary registers as:—													
(*a*) Recovered	4	5	—	—	—	4	6	1	4	9	6	1	20
(*b*) Non-tuberculous (including any such cases previously diagnosed and entered on the dispensary registers as tuberculous)	1	—	—	—	—	1	—	—	1	1	—	—	534
D.—Number of Cases on dispensary registers on 31st December, 1947:—													
(*a*) Definitely tuberculous	215	123	9	2	23	16	28	4	238	139	37	6	420
(*b*) Diagnosis not completed	—	—	—	—	—	—	—	—	7	5	5	6	23

1.—Number of cases on dispensary registers on 1st January, 1947	390
2.—Number of cases transferred from other areas and cases returned after discharge under Head 3 in previous years	8
3.—Number of cases transferred to other areas, cases not desiring further assistance under the tuberculosis scheme, and cases "lost sight of"	13
4.—Cases written off during the year as dead (all causes)	35
5.—Number of attendances at the dispensaries (including contacts)	3,163
6.—Number of consultations with medical practitioners:—	
(*a*) Personal	64
(*b*) Other	1,898
7.—Number of visits by tuberculosis officers to homes (including personal consultations	116
8.—Number of visits by nurses or health visitors to homes for dispensary purposes ...	2,118
9.—Number of:—	
(*a*) Specimens of sputum, etc., examined ...	453
(*b*) X-ray examinations made in connection with dispensary work	1,830
10.—Number of "recovered" cases restored to dispensary registers and included in A (*a*) and A (*b*) above	—
11.—Number of "T.B. plus" cases on dispensary registers on 31st December, 1947	195

Number of dispensaries for the treatment of tuberculosis (excluding centres used only for special forms of treatment).

Provided by the Council ... ... one | Provided by Voluntary Bodies ... Nil.

Number of examinations of persons referred by Civilian Medical Boards under the National Service (Armed Forces) Act, 1939	4
Number of visits by tuberculosis officers to sanatoria, and pulmonary, special, and public assistance hospitals	39
Number of special visits by tuberculosis officers, *i.e.*, interviews with medical officers of health, hospital officials	46

APPENDIX II.

CENSUS OF TUBERCULOSIS CASES on the County dispensary registers on the 31st December, 1947 (inclusive of 1,093 patients in sanatoria and hospitals).

Dispensary area	Sex	Number of cases under supervision on 31/12/47							Number of doubtful cases on 31-12-47
		Pulmonary tuberculosis		Non-pulmonary tuberculosis		TOTAL	Number of cases per 1,000 of population		
		Under 15 years of age	15 years and over	Under 15 years of age	15 years and over		Pulmonary	Non-pulmonary	
No. 1	M.	20	366	80	71				
	F.	8	254	87	99	985	2·31	1·20	5
No. 2	M.	6	453	93	103				
	F.	9	284	95	151	1,194	2·48	1·46	19
No. 3	M.	19	660	62	126				
	F.	15	472	50	146	1,550	3·01	0·99	11
No. 4	M.	17	591	94	140				
	F.	9	453	60	162	1,526	2·81	1·20	13
No. 5	M.	23	579	98	96				
	F.	20	504	93	106	1,519	3·11	1·08	10
Furness ...	M.	9	91	20	21				
	F.	5	72	22	28	268	4·46	2·29	3
Fylde	M.	2	163	33	26				
	F.	2	114	30	32	402	2·73	1·17	6
Wigan County ...	M.	9	168	73	34				
	F.	10	163	43	64	564	3·26	1·99	8
Total ...	M.	105	3,071	553	617				
	F.	78	2,316	480	788	8,008	2·84	1·24	75
		5,570		2,438			4·08		

The populations of the dispensary areas were :—

Area 1	279,462	Area 5	361,007
Area 2	302,424	Furness	39,639
Area 3	387,111	Fylde	102,726
Area 4	379,545	Wigan County ...	107,246

Total for County ... ... 1,959,160.

APPENDIX III.

Analysis of Cases on the County dispensary registers on the 31st December, 1947.

(a) *Pulmonary Tuberculosis.*

Age-groups	Sex	T.B. Minus		T.B. plus 1		T.B. plus 2		T.B. plus 3		Total	
		Active	Quies.	Active	Quies.	Active	Quies.	Active	Quies.	Active	Quies.
0—4 years	M.	6	4	—	—	—	—	—	—	6	4
	F.	9	2	—	—	—	—	—	—	9	2
5—14 years	M.	23	59	2	3	4	2	2	—	31	64
	F.	22	36	3	1	5	—	—	—	30	37
15—24 years	M.	63	159	27	30	110	51	13	2	213	242
	F.	80	159	44	47	189	59	17	5	330	270
25—34 years	M.	56	189	60	61	279	152	24	7	419	409
	F.	72	184	53	80	287	150	28	11	440	425
35—44 years	M.	57	158	44	56	253	158	21	6	375	378
	F.	36	78	27	37	154	93	14	3	231	211
45—54 years	M.	54	114	17	26	220	98	23	4	314	242
	F.	23	47	13	22	82	54	12	4	130	127
55—64 years	M.	37	93	10	17	124	46	18	4	189	160
	F.	5	32	7	7	24	18	3	1	39	58
65 years and over ...	M.	25	39	5	6	35	12	6	2	71	59
	F.	10	19	2	—	12	10	2	—	26	29
All ages	M.	321	815	165	199	1,025	519	107	25	1,618	1,558
	F.	257	557	149	194	753	384	76	24	1,235	1,159
Grand Total ...		578	1,372	314	393	1,778	903	183	49	2,853	2,717
		1,950		707		2,681		232		5,570	

(b) *Non-pulmonary Tuberculosis.*

Age-groups	Sex	Bones and joints (excluding spine)		Spine		Abdomen		Other organs		Peripheral glands		Skin		Total	
		Active	Quies.	Active	Quies.	Active	Quies.	Active	Quies.	Active	Quies.	Active	Quies.	Active	Quies.
0—4 years ...	M.	5	2	7	—	4	4	—	2	16	28	1	2	33	38
	F.	4	1	3	—	1	3	—	—	23	22	—	—	31	26
5—14 years ...	M.	29	35	10	13	11	40	—	6	67	265	2	4	119	363
	F.	26	33	11	23	5	14	2	—	63	241	1	4	108	315
15—24 years ...	M.	21	34	9	20	3	17	3	13	9	79	3	8	48	171
	F.	9	31	6	12	5	21	3	8	26	100	5	6	54	178
25—34 years ...	M.	10	26	9	14	—	6	6	11	15	18	10	12	50	87
	F.	7	16	11	16	14	17	8	14	16	73	9	9	65	145
35—44 years ...	M.	9	13	9	11	2	7	12	18	4	10	20	11	56	70
	F.	7	12	3	10	3	7	5	10	11	36	31	12	60	87
45—54 years ...	M.	10	10	9	5	1	2	7	4	1	5	11	11	39	37
	F.	6	8	5	3	1	6	5	5	8	25	21	11	46	58
55—64 years ...	M.	4	5	3	1	—	1	3	4	1	1	9	1	20	13
	F.	9	5	4	3	1	—	1	3	6	7	11	11	32	29
65 years and over ...	M.	8	7	1	—	—	—	—	2	—	—	6	2	15	11
	F.	3	2	5	1	—	—	1	—	4	2	11	5	24	10
All ages ...	M.	96	132	57	64	21	77	31	60	113	406	62	51	380	790
	F.	71	108	48	68	30	68	25	40	157	506	89	58	420	848
Grand Total ...		167	240	105	132	51	145	56	100	270	912	151	109	800	1,638
		407		237		196		156		1,182		260		2,438	

APPENDIX IV.

DEATH-RATES for 1947 from tuberculosis in 109 urban and rural districts in Lancashire, and in the 8 County dispensary areas.

County District.	Estimated Population, 1947.	Pulmonary Tuberculosis.			Non-pulmonary Tuberculosis.	
		Number of deaths, 1947.	Death-rate per 1,000 of population, 1947.	*Average* death-rate five years 1942–46.	Number of deaths 1947.	Death-rate per 1,000 of population, 1947.
Urban.						
Abram...	5,888	1	0·16	0·24	—	—
Accrington	39,110	10	0·25	0·49	3	0·07
Adlington	3,870	1	0·25	0·33	—	—
Ashton-in-Makerfield	18,380	10	0·54	0·54	1	0·05
Ashton-under-Lyne B.	47,160	26	0·55	0·51	8	0·16
Aspull	6,400	3	0·46	0·35	—	—
Atherton	20,250	5	0·24	0·18	—	—
Audenshaw	12,340	4	0·32	0·38	1	0·08
Bacup B.	18,080	11	0·60	0·48	2	0·11
Barrowford	4,680	3	0·64	0·26	—	—
Billinge and Winstanley ...	6,040	1	0·16	0·20	—	—
Blackrod	2,882	1	0·34	0·28	—	—
Brierfield	6,707	2	0·29	0·28	—	—
Carnforth	3,382	2	0·59	0·49	—	—
Chadderton	31,160	7	0·22	0·40	3	0·09
Chorley B.	31,500	4	0·12	0·26	1	0·03
Church	5,045	2	0·39	0·72	—	—
Clayton-le-Moors ...	6,680	2	0·29	0·45	1	0·14
Clitheroe B.	10,950	2	0·18	0·30	—	—
Colne	20,370	7	0·34	0·45	3	0·14
Crompton	12,530	1	0·07	0·34	—	—
Crosby B.	58,170	41	0·70	0·70	4	0·06
Dalton-in-Furness ...	10,470	3	0·28	0·70	1	0·09

Appendix IV.—continued.

County District.	Estimated Population, 1947.	Pulmonary Tuberculosis.			Non-pulmonary Tuberculosis.	
		Number of deaths 1947.	Death-rate per 1,000 of population, 1947.	*Average* death-rate five years 1942–46.	Number of deaths, 1947.	Death-rate per 1,000 of population, 1947.
Urban—continued						
Darwen B.	30,250	9	0·29	0·39	1	0·03
Denton	24,770	8	0·32	0·48	—	—
Droylsden	25,160	20	0·79	0·53	2	0·07
Eccles B.	41,740	22	0·52	0·50	8	0·19
Failsworth	17,490	13	0·74	0·50	1	0·05
Farnworth	27,430	8	0·29	0·46	—	—
Fleetwood B. ...	25,740	10	0·38	0·48	3	0·11
Formby	8,900	3	0·33	0·41	—	—
Fulwood	11,930	7	0·58	0·46	—	—
Golborne	14,970	8	0·53	0·21	1	0·06
Grange-over-Sands ...	2,640	—	—	0·43	—	—
Great Harwood ...	10,450	4	0·38	0·42	1	0·09
Haslingden	14,220	2	0·14	0·23	3	0·21
Haydock	11,520	6	0·52	0·36	1	0·08
Heywood B.	24,800	5	0·20	0·30	2	0·08
Hindley	19,030	7	0·36	0·32	—	—
Horwich	15,420	4	0·25	0·39	—	—
Huyton-with-Roby ...	50,350	37	0·73	0·56	5	0·09
Ince-in-Makerfield ...	20,150	12	0·59	0·51	3	0·14
Irlam	14,750	4	0·27	0·52	—	—
Kearsley	10,210	6	0·58	0·51	1	0·09
Kirkham	4,300	1	0·23	0·19	1	0·23
Lancaster B.	50,540	27	0·53	0·39	2	0·03
Lees	4,092	2	0·48	0·40	2	0·48
Leigh B.	47,190	15	0·31	0·34	4	0·08
Leyland	14,410	3	0·20	0·28	—	—
Litherland	20,590	11	0·53	0·79	3	0·14

Appendix IV.—continued.

County District.	Estimated Population, 1947.	Pulmonary Tuberculosis.			Non-pulmonary Tuberculosis.	
		Number of deaths 1947.	Death-rate per 1,000 of population, 1947.	*Average* death-rate five years 1942–46.	Number of deaths, 1947.	Death-rate per 1,000 of population, 1947.
Urban—continued						
Littleborough... ...	10,420	6	0·57	0·21	—	—
Little Lever	4,605	2	0·43	0·41	1	0·21
Longridge	3,991	—	—	0·29	—	—
Lytham St. Annes B.	31,060	11	0·35	0·26	1	0·03
Middleton B.	30,670	14	0·45	0·40	1	0·03
Milnrow	8,290	2	0·24	0·30	1	0·12
Morecambe and Heysham B. ...	36,960	21	0·56	0·37	5	0·13
Mossley	10,430	4	0·38	0·22	1	0·09
Nelson B.	33,140	7	0·21	0·39	—	—
Newton-le-Willows ...	21,260	13	0·61	0·40	2	0·09
Ormskirk	20,990	8	0·38	0·26	2	0·09
Orrell	8,718	3	0·34	0·33	—	—
Oswaldtwistle ...	12,230	3	0·24	0·50	3	0·24
Padiham	9,803	2	0·20	0·44	—	—
Poulton-le-Fylde ...	7,566	2	0·26	0·22	—	—
Preesall	2,118	—	—	0·39	—	—
Prescot	12,030	4	0·33	0·45	2	0·16
Prestwich B.	34,220	11	0·32	0·34	—	—
Radcliffe B.	27,370	8	0·29	0·27	3	0·10
Rainford	3,788	—	—	0·33	—	—
Ramsbottom	14,070	3	0·21	0·33	1	0·07
Rawtenstall B. ...	24,630	7	0·28	0·40	1	0·04
Rishton	5,467	3	0·54	0·42	1	0·18
Royton	14,630	7	0·47	0·50	—	—
Skelmersdale	5,929	3	0·50	0·23	—	—
Standish-with-Langtree ...	8,670	1	0·11	0·22	—	—

Appendix IV.—continued.

County District.	Estimated Population, 1947.	Pulmonary Tuberculosis.			Non-pulmonary Tuberculosis.	
		Number of deaths 1947.	Death-rate per 1,000 of population, 1947.	*Average* death-rate five years 1942–46.	Number of deaths, 1947.	Death-rate per 1,000 of population, 1947.
Urban—continued						
Stretford B.	60,390	35	0·57	0·53	4	0·06
Swinton and Pendlebury B. ...	40,170	19	0·47	0·52	4	0·09
Thornton Cleveleys ...	15,740	5	0·31	0·21	—	—
Tottington	5,778	1	0·17	0·13	—	—
Trawden	2,056	1	0·48	0·89	—	—
Turton	10,780	2	0·18	0·27	1	0·09
Tyldesley	17,920	4	0·22	0·36	2	0·11
Ulverston	9,889	3	0·30	0·44	—	—
Upholland	6,344	2	0·31	0·34	1	0·15
Urmston	38,030	6	0·15	0·33	2	0·05
Walton-le-dale ...	14,030	6	0·42	0·36	2	0·14
Wardle	4,173	2	0·47	0·29	—	—
Westhoughton ...	14,920	2	0·13	0·22	1	0·06
Whitefield	12,620	6	0·47	0·27	3	0·23
Whitworth	7,372	3	0·40	0·30	—	—
Widnes B.	46,110	33	0·71	0·64	5	0·10
Withnell	2,697	—	—	0·50	—	—
Worsley	26,970	5	0·18	0·33	1	0·03
Total Urban ...	1,684,130	683	0·40	0·42	123	0·07
Rural.						
Blackburn	12,580	4	0·31	0·19	1	0·07
Burnley	16,480	5	0·30	0·26	—	—
Chorley	26,150	4	0·15	0·22	1	0·03
Clitheroe	8,716	5	0·57	0·27	—	—
Fylde	11,120	2	0·17	0·19	—	—
Garstang	12,100	2	0·16	0·16	1	0·08

Appendix IV.—continued.

County District.	Estimated Population, 1947.	Pulmonary Tuberculosis.			Non pulmonary Tuberculosis.	
		Number of deaths 1947.	Death-rate per 1,000 of population, 1947.	*Average* death-rate five years 1942-46.	Number of deaths, 1947.	Death-rate per 1,000 of population, 1947.
Rural—continued						
Lancaster	11,150	3	0·26	0·27	—	—
Limehurst	7,566	2	0·26	0·46	—	—
Lunesdale	6,752	2	0·29	0·17	2	0·29
Preston	36,780	10	0·27	0·29	3	0·08
Ulverston	16,640	3	0·18	0·29	—	—
Warrington	23,300	7	0·30	0·36	—	—
West Lancashire ...	41,470	18	0·43	0·34	2	0·04
Whiston	36,600	10	0·27	0·29	1	0·02
Wigan	7,626	1	0·13	0·26	2	0·26
Total Rural ...	275,030	78	0·28	0·28	13	0·04
Total for Administrative County ...	1,959,160	761	0·38	0·40	136	0·06
Dispensary Area.						
No. 1	284,544	97	0·34	0·32	17	0·05
No. 2	302,424	93	0·30	0·39	21	0·06
No. 3	387,111	155	0·40	0·39	29	0·07
No. 4	379,545	141	0·37	0·41	29	0·07
No. 5	361,007	194	0·53	0·49	27	0·07
Furness	39,639	9	0·22	0·45	1	0·02
Fylde	97,644	31	0·31	0·30	5	0·05
Wigan County ...	107,246	41	0·38	0·37	7	0·06

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